

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1. (Original) A memory device comprising an array of bits or binary units, the bits being defined by a plurality of first conductors and either a second conductor or a plurality of second conductors overlying and separated from the first conductors, each bit including a cross-over point between one of the first conductors and the second conductor, or one of the second conductors, and wherein a selection of the bits also include a signal bridge connecting the first and second conductors at each of the respective selected pixels.

2. (Original) A memory device according to claim 1 wherein the plurality of first conductors are substantially parallel to each other and substantially orthogonal to the second conductor or conductors, and the plurality second conductors are substantially parallel to each other.

3. (Currently Amended) A device according to claim 1  
~~or claim 2~~ wherein the signal bridge is a capacitor.

4. (Currently Amended) A device according to claim 1  
~~or claim 2~~ wherein the signal bridge is a contact bridge.

5. (Currently Amended) A memory device according to  
~~any preceding claim 1~~ comprising an insulating layer between the first and second conductors, the insulating layer including a signal via at each of the selected bits through which said contact bridge connects the respective first and second conductors at each said selected bit.

6. (Currently Amended) A memory device according to ~~any of claims 1 to 4~~claim 1 comprising a bit map or bit pattern layer having a pattern of overlying the array of bits and conductive elements contact bridges on a surface for connecting a selected portion of the first and second conductors at a selected portion of the cross-over points between the conductors.

7. (Original) A memory device according to claim 6 wherein there are switch means on a surface of the array of bits and associated with each bit or cross-over point, each switch means including a first contact portion of one of the first conductors and a second contact portion of the second conductor or one of the second conductors wherein the first and second contact portions of each bit are separated from one another, and contact portions of selection of the bits are connected by the contact bridges overlying bitmap or bit pattern layer.

8. (Currently Amended) A memory device according to ~~claim 5 or claim 7~~ wherein the insulating layer is a thin sheet of a plastics material such as a polyimide, polyester, polystyrene or polyethylene.

9. (Currently Amended) An identifying or transaction card, for example, a credit card, debit card, identity card, driving licence, passport, or social security card including a memory device according to ~~any of claims 1 to 9~~claim 1 programmed with identification data or information characteristic or personal to the authorised user or users of the card.

10. (Original) A card according to claim 9 further comprising a fingerprint sensor.

11. (Original) A card according to claim 10 comprising a matrix of cells, each cell being defined by a cross-over point between one of a plurality of parallel first conductors and one of a plurality of parallel second conductors overlying and separated from the first conductors, wherein a first portion of the matrix is the memory device and a second portion of the matrix is a fingerprint sensor, wherein the cells of the first memory device portion are the bits of the memory device, and the cells of the second fingerprint sensor portions are the sensing cells of a fingerprint sensor, the card also including a resiliently deformable membrane overlying the second fingerprint sensor portion of the matrix, the membrane having conductive portions on its underside to connect the first and second conductors of one or more sensing cells in response to the presence or absence of a fingerprint ridge pressing down on the deformable membrane.

12. (Original) A card according to claim 11 wherein the second memory device portion includes a first memory section for storing a selected fingerprint pattern, and a second memory section for storing information about a selected authorised user or selected authorised users of the card.

13. (Original) A card according to claim 12 wherein the first memory section is adjacent and contiguous to the fingerprint sensor portion, and the second memory section is adjacent and contiguous to the first memory section and the fingerprint sensor portion.

14. (Currently Amended) A card according to ~~any of claims 11 to 13~~ claim 11 wherein the card includes a set of drive electrodes connected to the first (or second) conductors for supplying signals thereto and a set of sensing electrodes connected to the second (or first) conductors for monitoring the output therefrom.

15. (Original) A card according to claim 14 wherein a single set of drive electrodes and a single set of sensing electrodes may be used to address or interrogate both the memory device and the fingerprint sensor.

16. (Original) A method of making a memory device comprising an array of bits, the method comprising the steps of:

providing an insulating support;

to forming a plurality of first conductive portions on a first surface of the support;

to forming a second conductive portion or a plurality of second conductive portions on a second surface of the support, and separated from and crossing the first conductive portions at cross-over locations; and

corresponding to the locations of the signal vias providing signal vias extending through the insulating support at selected cross-over locations;

wherein an electrical coupling is established between respective first and second conductive portions through the signal vias.

17. (Original) A method according to claim 16 wherein the signal vias are provided by drilling holes extending through or partly through the insulating support and the walls of the holes are coated with a conductive material.